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☐ 1. Document ID: US 6548096 B1 WO 9952937 A1 ZA 9902566 A AU 9941184 A NO 200004979 A BR 9909542 A EP 1070726 A1 CZ 200003730 A3 SK 200001504 A3 CN 1296493 A KR 2001042515 A MX 2000009449 A1 HU 200101682 A2 RU 2179979 C1 JP 2000543493 X AU 753110 B NZ 507938 A

L3: Entry 1 of 1

File: DWPI

Apr 15, 2003

DERWENT-ACC-NO: 2000-023037

DERWENT-WEEK: 200329

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TITLE: New aspartame derivatives useful as sweeteners

INVENTOR: AMINO, Y; NAKAMURA, R ; TAKEMOTO, T ; YUZAWA, K ; AMINO, Y A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

AJINOMOTO CO INC

AJIN

AJINOMOTO KK

AJIN

PRIORITY-DATA: 1999JP-0038190 (February 17, 1999), 1998JP-0097701 (April 9, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6548096 B1	April 15, 2003		000	A23L001/236
WO 9952937 A1	October 21, 1999	J	036	C07K005/075
ZA 9902566 A	December 29, 1999		036	A23L000/00
AU 9941184 A	November 1, 1999		000	
NO 200004979 A	November 7, 2000		000	C07K005/075
BR 9909542 A	December 26, 2000		000	C07K005/075
EP 1070726 A1	January 24, 2001	E	000	C07K005/075
CZ 200003730 A3	April 11, 2001		000	C07K005/075
SK 200001504 A3	April 9, 2001		000	C07K005/075
CN 1296493 A	May 23, 2001		000	C07K005/075
KR 2001042515 A	May 25, 2001		000	C07K005/075
MX 2000009449 A1	March 1, 2001		000	A23L001/236
HU 200101682 A2	December 28, 2001		000	C07K005/075
RU 2179979 C1	February 27, 2002		000	C07K005/075
JP 2000543493 X	October 29, 2002		000	C07K005/075
AU 753110 B	October 10, 2002		000	C07K005/075
NZ 507938 A	November 22, 2002		000	C07K005/075

DESIGNATED-STATES: AU BR BY CA CN CZ HU IL IN JP KR MX NO NZ PL RO RU SK TR UA US VN

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL OA PT SE AT BE CH CY DE DK ES FI FR
GB GR IE IT LI LU MC NL PT RO SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6548096B1	March 11, 1999	1999WO-JP01210	Cont of
US 6548096B1	October 10, 2000	2000US-0684940	
WO 9952937A1	March 11, 1999	1999WO-JP01210	
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AU 9941184A		WO 9952937	Based on
NO 200004979A	March 11, 1999	1999WO-JP01210	
NO 200004979A	October 3, 2000	2000NO-0004979	
BR 9909542A	March 11, 1999	1999BR-0009542	
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BR 9909542A		WO 9952937	Based on
EP 1070726A1	March 11, 1999	1999EP-0932431	
EP 1070726A1	March 11, 1999	1999WO-JP01210	
EP 1070726A1		WO 9952937	Based on
CZ 200003730A3	March 11, 1999	1999WO-JP01210	
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CZ 200003730A3		WO 9952937	Based on
SK 200001504A3	March 11, 1999	1999WO-JP01210	
SK 200001504A3	March 11, 1999	2000SK-0001504	
SK 200001504A3		WO 9952937	Based on
CN 1296493A	March 11, 1999	1999CN-0804920	
KR2001042515A	October 6, 2000	2000KR-0711145	
MX2000009449A1	September 27, 2000	2000MX-0009449	
HU 200101682A2	March 11, 1999	1999WO-JP01210	
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JP2000543493X		WO 9952937	Based on
AU 753110B	March 11, 1999	1999AU-0041184	
AU 753110B		AU 9941184	Previous Publ.
AU 753110B		WO 9952937	Based on
NZ 507938A	March 11, 1999	1999NZ-0507938	
NZ 507938A	March 11, 1999	1999WO-JP01210	
NZ 507938A		WO 9952937	Based on

X , AU 753110 B , NZ 507938 A INT-CL (IPC): A23 L 0/00; A23 L 1/236; C07 C 229/00;
C07 K 5/075

ABSTRACTED-PUB-NO: WO 9952937A
BASIC-ABSTRACT:

NOVELTY - Aspartyl dipeptide ester derivatives (I) are new.

DETAILED DESCRIPTION - Aspartyl dipeptide ester derivatives of formula (I) and their salts are new.

R1-R5 = H, OH, 1-3C alkoxy, 1-3C alkyl or 2 or 3C hydroxyalkyloxy; or

R1+R2 or R2+R3 = methylenedioxy;

R6 = H or OH;

R7 = Me, Et, n or i-Pr or t-Bu;

provided that (I) in which R1 and R5 = H, R2 = OMe and R3 = OH is excluded.

USE - As low calorie sweeteners for use in e.g. pharmaceuticals, foodstuffs and drinks.

ADVANTAGE - (I) have a higher degree of sweetness compared to known compounds.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW ASPARTAME DERIVATIVE USEFUL SWEET

DERWENT-CLASS: B05 D13 E14

CPI-CODES: B06-A02; B10-B02F; B14-E11; D03-H01A; E06-A02E; E10-B02E;

CHEMICAL-CODES:

Chemical Indexing M2 *01*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VRON

Chemical Indexing M3 *01*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VRON

Chemical Indexing M2 *02*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VRQN

Chemical Indexing M3 *02*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M282 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VRQN

Chemical Indexing M2 *03*

Fragmentation Code

D022 D111 G010 G100 H1 H102 H181 J0 J013 J1
J171 J2 J271 J3 J371 M210 M211 M272 M281 M312
M313 M321 M322 M332 M342 M343 M349 M371 M373 M381
M391 M412 M511 M520 M531 M540 M710 M904 M905 Q222

Specific Compounds

A0VRRN

Chemical Indexing M3 *03*

Fragmentation Code

D022 D111 G010 G100 H1 H102 H181 J0 J013 J1
J171 J2 J271 J3 J371 M210 M211 M272 M281 M312
M313 M321 M322 M332 M342 M343 M349 M371 M373 M381
M391 M412 M511 M520 M531 M540 M710 M904 M905 Q222

Specific Compounds

A0VRRN

Chemical Indexing M2 *04*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212
M272 M282 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222

Specific Compounds

A0VRSN

Chemical Indexing M3 *04*

Fragmentation Code

G010 G013 G100 H1 H102 H181 H5 H541 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212
M272 M282 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222

Specific Compounds

A0VRSN

Chemical Indexing M2 *05*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M272 M281 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222

Specific Compounds

A0VRUN

Chemical Indexing M3 *05*

Fragmentation Code

G010 G012 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M272 M281 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222

Specific Compounds

A0VRUN

Chemical Indexing M2 *06*

Fragmentation Code

G013 G015 G100 H1 H102 H181 H4 H402 H442 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371

M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRVN

Chemical Indexing M3 *06*

Fragmentation Code
G013 G015 G100 H1 H102 H181 H4 H402 H442 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRVN

Chemical Indexing M2 *07*

Fragmentation Code
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRWN

Chemical Indexing M3 *07*

Fragmentation Code
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRWN

Chemical Indexing M2 *08*

Fragmentation Code
G010 G014 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRYN

Chemical Indexing M3 *08*

Fragmentation Code
G010 G014 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRYN

Chemical Indexing M2 *09*

Fragmentation Code
G010 G015 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222
Specfic Compounds
A0VRZN

Chemical Indexing M3 *09*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H5
H541 H8 J0 J013 J1 J171 J2 J271 J3 J371
M210 M211 M272 M282 M312 M313 M321 M322 M332 M342
M343 M349 M371 M373 M381 M391 M414 M510 M520 M532
M540 M710 M904 M905 Q222

Specific Compounds

A0VRZN

Chemical Indexing M2 *10*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540
M710 M904 M905 Q222

Specific Compounds

A0VSON

Chemical Indexing M3 *10*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540
M710 M904 M905 Q222

Specific Compounds

A0VSON

Chemical Indexing M2 *11*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M283 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VS1N

Chemical Indexing M3 *11*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M272
M283 M312 M313 M321 M322 M332 M342 M343 M349 M371
M373 M381 M391 M414 M510 M520 M532 M540 M710 M904
M905 Q222

Specific Compounds

A0VS1N

Chemical Indexing M2 *12*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212
M272 M283 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222

Specific Compounds

A0VS2N

Chemical Indexing M3 *12*

Fragmentation Code

G010 G015 G100 H1 H102 H181 H5 H542 H8 J0
J013 J1 J171 J2 J271 J3 J371 M210 M211 M212

M272 M283 M312 M313 M321 M322 M332 M342 M343 M349
M371 M373 M381 M391 M414 M510 M520 M532 M540 M710
M904 M905 Q222
Specific Compounds
A0VS2N

Chemical Indexing M2 *13*

Fragmentation Code
G010 G015 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540
M710 M904 M905 Q222
Specific Compounds
A0VS3N

Chemical Indexing M3 *13*

Fragmentation Code
G010 G015 G100 H1 H102 H181 H4 H401 H441 H8
J0 J013 J1 J171 J2 J271 J3 J371 M210 M211
M240 M272 M281 M312 M313 M321 M322 M332 M342 M343
M349 M371 M373 M381 M391 M414 M510 M520 M532 M540
M710 M904 M905 Q222
Specific Compounds
A0VS3N

Chemical Indexing M2 *14*

Fragmentation Code
G010 G011 G012 G013 G014 G015 G016 G017 G018 G019
G100 H1 H102 H181 H401 H402 H403 H404 H405 H441
H442 H443 H444 H481 H482 H483 H484 H541 H542 H543
J0 J013 J1 J171 J2 J271 J3 J371 L660 L699
M210 M211 M212 M213 M214 M215 M216 M231 M232 M233
M240 M272 M281 M282 M283 M311 M312 M313 M314 M315
M321 M322 M323 M331 M332 M333 M340 M342 M343 M349
M371 M373 M381 M383 M391 M392 M393 M414 M510 M520
M532 M540 M710 M904 M905 Q222
Markush Compounds
200008-85301-N

Chemical Indexing M3 *14*

Fragmentation Code
G010 G011 G012 G013 G014 G015 G016 G017 G018 G019
G100 H1 H102 H181 H401 H402 H403 H404 H405 H441
H442 H443 H444 H481 H482 H483 H484 H541 H542 H543
J0 J013 J1 J171 J2 J271 J3 J371 L660 L699
M210 M211 M212 M213 M214 M215 M216 M231 M232 M233
M240 M272 M281 M282 M283 M311 M312 M313 M314 M315
M321 M322 M323 M331 M332 M333 M340 M342 M343 M349
M371 M373 M381 M383 M391 M392 M393 M414 M510 M520
M532 M540 M710 M904 M905 Q222
Markush Compounds
200008-85301-N

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-005541

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1				
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